## What is Claimed Is:

1. A method of forming a thin lubricant film on a recording medium, the method comprising:

applying a lubricant having at least one UV-polymerizable group on the recording medium;

heating the recording medium; and exposing the lubricant to UV radiation to polymerize the lubricant.

- 2. The method according to claim 1, comprising heating the recording medium from about 50 °C to about 150 °C.
- 3. The method according to claim 1, comprising forming approtective overcoat on the recording medium prior to applying the lubricant.
- 4. The method according to claim 3, comprising forming a carbon containing layer as the protective overcoat.
- 5. The method according to claim 3, comprising forming an amorphous carbon layer as the protective overcoat.
- 6. The method according to claim 1, wherein the lubricant comprises a fluoropolyalkylether having one or more acrylyl groups.
- 7. The method according to claim 6, wherein the fluoropolyalkylether comprises a plurality of  $-(C_aF_{2a}O)_n$  repeating units, wherein subscript a is independently in each such unit an integer of from 1 to about 10 and n is an integer from 5 to about 80.
- 8. The method according to claim 6, wherein the fluoropolyalkylether comprises a compound having the formula:

CH<sub>2</sub>=CH(O)COCX<sub>2</sub>CX<sub>2</sub>O(CF<sub>2</sub>CF<sub>2</sub>O)<sub>n</sub>(CF<sub>2</sub>O)<sub>m</sub>CX<sub>2</sub>CX<sub>2</sub>OC(O)CH=CH<sub>2</sub>

wherein each of n and m are 1 to about 200 and X is hydrogen or fluorine.

9. A method of forming a lubricant film on a substrate, the method comprising:

applying a lubricant having at least one UV-polymerizable group on the substrate;

heating the substrate or lubricant; and

polymerizing the lubricant by exposing the lubricant to UV radiation, wherein the UV radiation is substantially free of wavelengths less than 200 nm.

- 10. The method according to claim 9, comprising exposing the lubricant to UV radiation having wavelengths from 200 nm to about 400 nm.
- 11. The method according to claim 9, comprising heating the substrate or lubricant with an infrared heating source.
- 12. The method according to claim 9, comprising heating the substrate to above about 30 °C.
- 13. The method according to claim 9, comprising heating the substrate from about 50  $^{\circ}$ C to about 150  $^{\circ}$ C.
- 14. The method according to claim 9, comprising heating the lubricant from about 50  $^{\circ}$ C to about 150  $^{\circ}$ C.
- 15. A method of forming a lubricant film on a magnetic recording medium, the method comprising:

applying a lubricant having at least one UV-polymerizable group on the magnetic recording medium;

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heating the magnetic recording medium; and

polymerizing the lubricant by exposing the lubricant to UV radiation, wherein the UV radiation is substantially free of wavelengths at 185 nm or less.

- 16. The method according to claim 15, comprising heating the magnetic recording medium from about 50°C to about 150°C, wherein the magnetic recording medium comprises a substrate, a magnetic layer thereon and a protective coating on the magnetic layer.
- 17. The method according to claim 16, comprising exposing the lubricant to UV radiation having wavelengths from 200 nm to about 400 nm.
- 18. The method according to claim 17, wherein the lubricant comprises a fluoropolyalkylether having at least two acrylyl groups.
- 19. The method according to claim 15, wherein the polymerized lubricant has a total corrosion charge of less than  $250\mu C$  and a stiction of less than 3 grams.

20. A magnetic recording medium, comprisinga magnetic layer; anda means for lubricating the magnetic recording medium.